

GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: March 17, 2003, 16:34:47 ; Search time 39 Seconds
(without alignments)
888.337 Million cell updates/sec

Title: US-09-840-243B-11
Perfect score: 1341
Sequence: 1 MELTQPAEDLIQTQTPASE.....VIENHILKLFQSNLVPADPE 260

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : A_Geneseq_101002:*
- 1: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
 - 2: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
 - 3: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
 - 4: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
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 - 21: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:*
 - 22: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
 - 23: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1341	100.0	260	21	AA179411	Human MHC class II
2	1341	100.0	260	21	AA159539	Human ankyrin fami
3	1113.5	83.0	269	21	AA159590	Ankyrin repeat pro
4	625	46.6	229	23	ABP41881	Human ovarian anti
5	621.5	46.3	313	22	AA166309	Human ankyrin-like
6	621.5	46.3	313	22	AA194322	Human protein sequ
7	607.5	45.3	263	22	AA120646	Human secreted pro
8	495	36.9	152	22	AB150161	Human transcriptio
9	421.5	31.4	84	21	AA101584	Human secreted pro
10	393	29.3	119	22	AA120665	Human secreted pro

11	364	27.1	105	22	AA120558	Human secreted pro
12	299	22.3	81	23	AB197342	Novel human protei
13	274	20.4	234	22	AB161859	Drosophila melanog
14	257	19.2	49	22	AB143550	Peptide #11056 enc
15	257	19.2	49	22	AA121225	Peptide #7659 enco
16	257	19.2	49	23	AB146308	Human peptide enco
17	212	15.8	705	22	AA175604	Human colon cancer
18	212	15.8	1762	23	AA196841	Rat Kidins220 prot
19	210.5	15.7	2443	22	AB160521	Drosophila melanog
20	207.5	15.5	166	23	AB178585	3 ankyrin repeat m
21	207.5	15.5	1715	22	AA138993	Human polypeptide
22	207.5	15.5	1715	22	AA139025	Human polypeptide
23	207.5	15.5	1715	23	AA196840	Human Kidins220 pr
24	206.5	15.4	1763	23	AA180244	Rat Kidins220 prot
25	205.5	15.3	342	22	AB159641	Drosophila melanog
26	205	15.3	348	19	AA170607	Ankyrin protein fir
27	205	15.3	348	19	AA176775	D. immitis ankyrin
28	205	15.3	348	21	AA111588	D. immitis ankyrin
29	205	15.3	348	23	AA121367	Ankyrin protein se
30	205	15.3	1745	19	AA170608	D. immitis ankyri
31	205	15.3	1745	19	AA176776	D. immitis ankyrin
32	205	15.3	1745	21	AA111589	Ankyrin protein se
33	205	15.3	1745	23	AA121368	Ankyrin protein se
34	204.5	15.2	978	21	AA142288	Human ORFX ORF2052
35	202.5	15.1	765	22	AA185514	Human protein kina
36	202.5	15.1	1872	22	AA179160	Human protein SEQ
37	199	14.8	1498	22	AB164857	Drosophila melanog
38	198	14.8	627	23	AA117136	Human cancer cell
39	196.5	14.7	551	22	AA101035	Human death domain
40	196	14.6	1377	22	AB108072	Novel human diagno
41	195.5	14.6	456	21	AA112893	Arabidopsis thalia
42	195.5	14.6	456	21	AA127402	Arabidopsis thalia
43	195	14.5	435	22	AA166710	Human cell growth
44	195	14.5	435	22	AA193879	Human protein sequ
45	193	14.4	4274	22	AB100972	Novel human diagno

ALIGNMENTS

RESULT 1	AA179411	AA179411 standard; Protein; 260 AA.
ID	AA179411	
AC	AA179411	
XX		
DT	01-AUG-2000	(first entry)
DE	Human MHC class II gene transcription factor RFXANK.	
XX		
XX	RFXANK; HREFXANK; human; transcription factor; MHC class II;	
KW	chromosome 19p12; immunosuppressive; immunomodulator;	
KW	antiinflammatory; antidiabetic; antiarthritic; therapy;	
KW	inflammation; autoimmune diseases; transplant rejection;	
KW	insulin dependent diabetes; multiple sclerosis;	
KW	lupus erythematosus; rheumatoid arthritis; immunodeficiency.	
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Region	122..156
FT	Region	/note= "ankyrin repeat region 1"
FT	Region	157..188
FT	Region	/note= "ankyrin repeat region 2"
FT	Region	189..222
FT	Region	/note= "ankyrin repeat region 3"
XX		
PN	BP995798-A1.	
XX		
XX	26-APR-2000.	
PD		
XX		
XX	24-OCT-1998;	98EP-0120085.
PF		
XX		

PR 24-OCT-1998; 98EP-0120085.
XX
PA (NOVI-) NOVIMUNE SA.
XX
PI Masternak K, Reith W, Mach B;
XX
DR WPI; 2000-294958/26.
DR N-PSDB; AA294868.
XX
PT Novel isolated transcription factor, RFXANK, useful for treating MHC
PT class II deficiency and autoimmune disorders, e.g. insulin dependent
PT diabetes and multiple sclerosis, restores the functional transcription
PT of MHC class II genes -
XX
PS Claim 1; Fig 3; 48pp; English.
XX
CC The present sequence is that of human RFXANK, a novel transcription
CC factor that is a subunit of the RFX heterotrimeric transcription
CC complex that binds to the conserved X box motif of all MHC class II
CC gene promoters. The RFXANK gene is mutated in complementation group
CC B MHC II deficiency patients. Mutations identified in patients
CC include aberrant splicing and short deletions in exon 6. The
CC invention provides inhibitors of RFXANK including antibodies, single
CC chain antibodies, dominant negative mutants, antisense molecules
CC and ribozymes. The inhibitors may be used in therapy or prevention
CC of diseases associated with aberrant expression of MHC class II
CC genes and/or as an immunosuppressive agents, e.g. to treat
CC inflammation, autoimmune diseases or rejection of transplanted
CC organs, insulin dependent diabetes, multiple sclerosis, lupus
CC erythematosus and rheumatoid arthritis. The compositions may also
CC be used to treat the autosomal recessive disease MHC class II
CC deficiency. Since RFXANK does not play any other major role in the
CC transcriptional control of genes other than MHC class II genes, its
CC inhibitors are devoid of other undesirable inhibitory effects.
XX
SQ Sequence 260 AA;
Query Match 100.0%; Score 1341; DB 21; Length 260;
Best Local Similarity 100.0%; Pred. No. 2e-128;
Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MELTQPAEDLIQTQTPASELGPEDPEGEAADGSDTVVLSLFPCTPEPVNPEPDASVSS 60
Db 1 MELTQPAEDLIQTQTPASELGPEDPEGEAADGSDTVVLSLFPCTPEPVNPEPDASVSS 60
QY 61 PQAGSSSLKHSTLTNRQRGNEVSALPATLDSLSIHQLAAQGEIDQLKEHLRKGDNLVNKP 120
Db 61 PQAGSSSLKHSTLTNRQRGNEVSALPATLDSLSIHQLAAQGEIDQLKEHLRKGDNLVNKP 120
QY 121 DERGFTPLIWASAFGEIETVRFLLEWGDADPHILAKERESALSLASTGTYTDIVGLLERD 180
Db 121 DERGFTPLIWASAFGEIETVRFLLEWGDADPHILAKERESALSLASTGTYTDIVGLLERD 180
QY 181 VDINIYDWMNGTPLLAVRGNHVKCEVALLARGADLTTEADSGYTPMDLAVALGYRKVQQ 240
Db 181 VDINIYDWMNGTPLLAVRGNHVKCEVALLARGADLTTEADSGYTPMDLAVALGYRKVQQ 240
QY 241 VIENHILKLFQSNLVPADPE 260
Db 241 VIENHILKLFQSNLVPADPE 260
RESULT 2
ID AAY59539 standard; Protein; 260 AA.
XX
AC AAY59539;
XX
DT 03-APR-2000 (first entry)
XX
DE Human ankyrin family protein, ANFP.
XX
KW Human; ankyrin family protein; ANFP; autoimmune disorder; inflammation;

KW atherosclerosis; inflammatory disorder; proliferative disorder; AIDS;
KW vesicle-trafficcking disorder; allergy; amyloidosis; anaemia; asthma;
KW bronchitis; Crohn's disease; atopic dermatitis; diabetes mellitus;
KW irritable bowel syndrome; osteoporosis; rheumatoid arthritis; cirrhosis;
KW hepatitis; ulcerative colitis; cancer; hypercholesterolaemia; therapy;
KW diagnosis.
XX
OS Homo sapiens.
XX
PN US5989863-A.
XX
PD 23-NOV-1999.
XX
PF 14-OCT-1998; 98US-0172977.
XX
PR 14-OCT-1998; 98US-0172977.
XX
PA (INCY-) INCYTE PHARM INC.
XX
PI Tang YT, Corley NC, Yue H, Guegler KU;
XX
DR WPI; 2000-095634/08.
DR N-PSDB; AA249052.
XX
PT Polynucleotide sequence encoding a human ankyrin family protein useful
PT for diagnosis or treatment of autoimmune, inflammatory, proliferative
PT and vesicle-trafficcking disorders -
XX
PS Claim 1; Fig 1; 34pp; English.
XX
CC This sequence is the human ankyrin family protein, ANFP, of the
CC invention. Host cells containing an expression vector containing the
CC polynucleotide sequence can be cultured to produce ANFP, which can be
CC used for diagnosis or treatment of autoimmune, inflammatory,
CC proliferative and vesicle-trafficcking disorders. Disorders which can be
CC treated include acquired immune deficiency syndrome (AIDS), allergies,
CC amyloidosis, anaemia, asthma, atherosclerosis, bronchitis, Crohn's
CC disease, atopic dermatitis, diabetes mellitus, irritable bowel syndrome,
CC myocardial or pericardial inflammation, osteoporosis, rheumatoid
CC arthritis, cirrhosis, hepatitis, ulcerative colitis, cancer and
CC hypercholesterolaemia. The polynucleotide sequences can also be used as a
CC hybridisation probe to detect ANFP-encoding polynucleotides in biological
CC samples. Purified ANFP can be used to produce antibodies or to screen
CC libraries of pharmaceutical agents to find agents that specifically bind
CC ANFP. The DNA and its antisense sequence can be used in therapeutic
CC compositions e.g. to regulate gene function. The DNA sequence can be used
CC for diagnostic purposes to detect and quantitate gene expression in
CC biopsied tissues and to indicate the absence, presence and excess
CC expression of ANFP and monitor its levels during therapeutic
CC intervention.
XX
SQ Sequence 260 AA;
Query Match 100.0%; Score 1341; DB 21; Length 260;
Best Local Similarity 100.0%; Pred. No. 2e-128;
Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MELTQPAEDLIQTQTPASELGPEDPEGEAADGSDTVVLSLFPCTPEPVNPEPDASVSS 60
Db 1 MELTQPAEDLIQTQTPASELGPEDPEGEAADGSDTVVLSLFPCTPEPVNPEPDASVSS 60
QY 61 PQAGSSSLKHSTLTNRQRGNEVSALPATLDSLSIHQLAAQGEIDQLKEHLRKGDNLVNKP 120
Db 61 PQAGSSSLKHSTLTNRQRGNEVSALPATLDSLSIHQLAAQGEIDQLKEHLRKGDNLVNKP 120
QY 121 DERGFTPLIWASAFGEIETVRFLLEWGDADPHILAKERESALSLASTGTYTDIVGLLERD 180
Db 121 DERGFTPLIWASAFGEIETVRFLLEWGDADPHILAKERESALSLASTGTYTDIVGLLERD 180
QY 181 VDINIYDWMNGTPLLAVRGNHVKCEVALLARGADLTTEADSGYTPMDLAVALGYRKVQQ 240
Db 181 VDINIYDWMNGTPLLAVRGNHVKCEVALLARGADLTTEADSGYTPMDLAVALGYRKVQQ 240

modulate ovarian antigen expression or activity. The polynucleotides may further be used for gene therapy, chromosome mapping, in the identification of individuals and in forensic analysis, and the polypeptides may be used as food additives or to prepare antibodies useful in disease diagnosis, drug targeting and phenotyping. The present sequence represents a human ovarian antigen of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

SQ **Sequence** **229 AA;**

Query Match	46.6%;	Score 625;	DB 23;	Length 229;
Best Local Similarity	58.6%;	Pred. No. 2.2e-55;		
Matches 130; Conservative	26;	Mismatches 58;	Indels 8;	Gaps 3;

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QY 37 TVVLSLFPCPTPEVPNPEPDASV-----SSPQAGSSLKXSTLTLTNRQRGNEVSALPATLD 90
    | | | | | : | | | | | : | | | | | : | | | | | :
Db 7 TVFVHLAECNIH-TSPSPGIGVRHVYTPSTTKHFSPIKOSTTLTNKRGNEVSTPELLAN 65
    | | | | | : | | | | | : | | | | | : | | | | | :
QY 91 SLSIHQLAAGGELDQKHEHLRKGDNLVKNRPDERGFTPLIWASAFGEIETVRFLLEWGADP 150
    | | | | | : | | | | | : | | | | | : | | | | | :
Db 66 SLSVHQLAAGGEMLYLATRIEQ-ENVNHTDEEGFTPLMWAADHGQIAVEVEFLQNGADP 124
    | | | | | : | | | | | : | | | | | : | | | | | :
QY 151 HILAKERESALSLASTGGYTDIVGILLERDVIDINIDWNGGTPLLYAVRGNHVKVEALL 210
    : | | | | | : | | | | | : | | | | | : | | | | | :
Db 125 QLLKGRESALSLACSKGYTDIVKMLLDGVDVNEYDWNNGTPLLVAVHGHNHVCVKMLL 184
    | | | | | : | | | | | : | | | | | : | | | | | :
QY 211 ARGADLTTEADSGYTPMDLAVALLGYRKVOQVIEHHILKLFQS 252
    | | | | | : | | | | | : | | | | | : | | | | | :
Db 185 ESGADPTIETDSGYNSMDLAVALLGYRSVOQVIESHLIKLLQN 226
    | | | | | : | | | | | : | | | | | : | | | | | :

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RESULT 5
AAG66309
ID AAG66309 standard; Protein; 313 AA.

AC AAG66309;

DT 09-OCT-2001 (First entry)

Human ankyrin-like protein 34.

KW Human; ankyrin-like protein 34; cytostatic; virucidal; immunomodulatory;
KW antiinflammatory; haemostatic; gene therapy; malignant tumour;
KW haemopathy; HIV infection; immunological disease; inflammation.

OS Homo sapiens.

PN WO200155194-A1.

PD 02-AUG-2001.

PF 21-JAN-2001; 2001WO-CN00085.

PR 28-JAN-2000; 2000CN-0111595.

PA (BIOD-) BIODOR GENE TECHNOLOGY LTD SHANGHAI.

PI Mao Y, Xie Y;

DR WPI; 2001-483222/52.

XX
;
.
.

PT New human ankyrin-like protein 34 for diagnosing and treating malignant tumor, hemopathy, human immunodeficiency virus infection, immunological diseases and various inflammations -

PS Claim 1; Page 31-32; 38pp; Chinese.

CC The present sequence is the protein sequence for human ankyrin-like
CC protein 34. The ankyrin-like protein and its coding sequence are useful
CC in the diagnosis and treatment of malignant tumour, haemopathy, HIV

CC infection, immunological diseases and various inflammations.

SQ Sequence 313 AA;

Query Match	46.3%;	Score 621.5;	DB 22;	Length 313;
Best Local Similarity	60.6%;	Pred. No. 8.1e-55;		
Matches 126;	Conservative 26;	Mismatches 49;	Indels 7;	Gaps 2;

QY	51	NPEPDASV-----SSPQAGSSLKHSHTLLTNRÖRGNEVSALPATLDSLSIHÖLAÄGELD	104
	:	:	:
Dd	104	SPPSGIQVRHVYTPSTTKHFSPIKÖSTTLTNKHGRNEVSTPLLANSLSVHÖLAÄGEML	163
	:	:	:
QY	105	QLKEHLRKGDNLVNKPDERGETPLIWASAFAGEIETVRFLLEWGADPHILAKERESALSIA	164
	:	:	:
Dd	164	YLATRIEQ-ENVINHTDEEGFTPLMWAHAHQIAVEFLLQNGADPQLLGKGRESALSIA	222
	:	:	:
QY	165	STGGYTDIVGLLERVDINITYDWNGGTPLLVAVRGNHVKCVEALLARGADLTTEADSGY	224
	:	:	:
Dd	223	CSKGTYTDIVKMMLDCGVADVNEIDWNGGTPLLVAVHGHNHKCVKMMLLESADPTIETDSGY	282
	:	:	:
QY	225	TPMDLAVALGYRKVOÖVIENHILLKLFOŚ	252
	:	:	:
Dd	283	NSMDLAVALGYRSVOÖVIESHLLKLQN	310

RESULT 6
AAB94322
ID AAB94322 standard; Protein; 313 AA

AC AAB94322;

DT 26-JUN-2001 (first entry)

DE Human protein sequence SEQ ID NO:14803.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.

OS Homo sapiens.

PN EP1074617-A2.

PD 07-FEB-2001.

PF 28-JUL-2000; 2000EP-0116126.

PR 29-JUL-1999; 99JP-0248036.

PR 11-JAN-2000; 2000JP-0118776.

09-JUN-2000; 2000JP-0241899.

PA (HELI-) HELIX RES INST.

Ota T, Isogai T, Nishikawa

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23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 105

full-length cDNAs defined in the specification, and for the detection

PT	full-length cDNAs -
xy	

PS Claim 8; SEQ ID 14803; 2537pp + CD ROM; English.

CC The present invention describes primer sets for synthesizing 5602
CC full-length cDNAs defined in the specification. Where a primer set
CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
CC to the complementary strand of a polynucleotide which comprises one of
CC the 5602 nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end

CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in
CC the specification. The primer sets can be used in antisense therapy and
CC in gene therapy. The primers are useful for synthesising polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
CC represent oligonucleotides, all of which are used in the exemplification
CC of the present invention.

XX Sequence 313 AA;

Query Match 46.3%; Score 621.5; DB 22; Length 313;
Best Local Similarity 60.6%; Pred. No. 8.1e-55;
Matches 126; Conservative 26; Mismatches 49; Indels 7; Gaps 2;

QY 51 NPEPDASV-----SSPQAGSSSLKHSTLTNRQGNVSALPATLDSLSIHQLAOGELD 104
Db 104 SPSPGIGVRHVYTPSTTKHFSPIKOSTTLTNKHGNEVSTPPLANSLSVHQLAOGEML 163
QY 105 QLKHELRKGDNLVKNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSIA 164
Db 164 YLATRIEQ-ENVINHTDEGFTPLMWAAGQIAVVEFLQNGADPQLLGKGRESALSIA 222
QY 165 STGYTDIVGLLERVDVINIYDWNNGTPLLVAVRGNHVKCEALLARGADLTTEADSGY 224
Db 223 CSKGYTDIVKMLLDGVDVNEYDWNNGTPLLVAVRGNHVKCVKMLLESADPTIETDSGY 282
QY 225 TPMDLAVALLGYRKVQGVIEHHILKLFQS 252
Db 283 NSMDLAVALLGYRSVQGVIESHLKLQN 310

RESULT 7
AAU20646

ID AAU20646 standard; Protein; 263 AA.

XX AAU20646;

XX 06-DEC-2001 (first entry)

DT Human secreted protein, Seq ID No 638.

XX Immunomodulatory; human immunodeficiency virus; HIV; anaemia; angina;
KW rheumatoid arthritis; antiarteriosclerotic; cardiant; vascular;
KW cerebroprotective; thrombolytic; antimicrobial; ophthalmological;
KW cytoskeletal; Alzheimer's disease; Parkinson's disease; human; cancer;
KW multiple sclerosis; cancer; hyperproliferative disorder; infection;
KW Gaucher's disease; neurological disease; cerebrovascular disorder;
KW thrombosis; wound healing.

XX Homo sapiens.

PN WO200155326-A2.

PD 02-AUG-2001.

XX 17-JAN-2001; 2001WO-US01347.

PF 31-JAN-2000; 2000US-0179065.

XX (HUMA-) HUMAN GENOME SCI INC.

XX PI Rosen CA, Barash SC, Ruben SM;

XX WPI; 2001-451931/48.

DR N-PSDB; AAS33355.

XX

PT New nucleic acids and polypeptides, useful for diagnosing, preventing
PT or treating medical conditions -

PS Claim 11; SEQ ID No 638; 753bp; English.

XX The invention relates to novel isolated nucleic acid molecules (I)
CC encoding human secreted proteins (II). (I) and (II) are used to prevent,
CC treat or ameliorate a medical condition in e.g. humans, mice, rabbits,
CC goats, horses, cats, dogs, chickens or sheep. (I) and (II) may be used in
CC the prevention, treatment and diagnosis of diseases associated with
CC inappropriate expression of secreted proteins. (I) and complementary
CC sequences may also be used as DNA probes in diagnostic assays (e.g.
CC polymerase chain reactions (PCR)) to detect and quantitate the presence
CC of similar nucleic acid sequences in samples, and so which patients may
CC be in need of restorative therapy. (II) may also be used as antigens in
CC the production of antibodies and in assays to identify modulators
CC (agonists and antagonists) of the expression and activity of the secreted
CC proteins. The anti-(II) antibodies and antagonists may also be used to
CC down regulate expression and activity of (II). The anti-(II) antibodies
CC may also be used as diagnostic agents for detecting the presence of (II)
CC in samples (e.g. by enzyme linked immunosorbant assay (ELISA)). The
CC disorders include for example: immune/autoimmune diseases (e.g. HIV
CC (human immunodeficiency virus) infections, anaemia, rheumatoid arthritis
CC and multiple sclerosis), cancers and hyperproliferative disorders (e.g.
CC melanomas, neoplasms of the breast or liver, Sezary syndrome and
CC Gaucher's disease), neurological diseases (e.g. Alzheimer's disease,
CC Parkinson's disease and Charcot-Marie-Tooth disease), cardio-/
CC cerebrovascular disorders (e.g. cardiac arrest, tachycardia,
CC angina and thrombosis), infections caused by bacteria, viruses and
CC fungi and ocular disorders (e.g. corneal infections). (I) and (II),
CC agonists, antagonists and antibodies can also be used to promote wound
CC healing, maintain organs before transplantation, and support cell culture
CC of primary tissues. AAU20342-AAU20666 represent human secreted protein
CC amino acid sequences, and related sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification but was obtained in electronic format directly from WIPO
CC at: ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 263 AA;

Query Match 45.3%; Score 607.5; DB 22; Length 263;
Best Local Similarity 59.4%; Pred. No. 1.7e-53;
Matches 123; Conservative 26; Mismatches 51; Indels 7; Gaps 2;

QY 51 NPEPDASV-----SSPQAGSSSLKHSTLTNRQGNVSALPATLDSLSIHQLAOGELD 104
Db 36 SPSPGIGVRHVYTPSTTKHFSPIKOSTTLTNKHGNEVSTPPLANSLSVHQLAOGEML 95
QY 105 QLKHELRKGDNLVKNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSIA 164
Db 96 YLATRIEQ-ENVINHTDEGFTPLMWAAGQIAVVEFLQNGADPQLLGKGRESALSIA 154
QY 165 STGYTDIVGLLERVDVINIYDWNNGTPLLVAVRGNHVKCEALLARGADLTTEADSGY 224
Db 155 CSKGYTDIVKMLLDGVDVNEYDWNNGTPLLVAVRGNHVKCVKMLLESADPTIETDSGY 214
QY 225 TPMDLAVALLGYRKVQGVIEHHILKLFQ 251
Db 215 NSMDLAVALLGYRSVQGVIESHLNCFK 241

RESULT 8
ABB50161

ID ABB50161 standard; Protein; 152 AA.

XX ABB50161;

DT 05-FEB-2002 (first entry)

DE Human transcription factor TRFX-12.

XX Human; transcription factor; TRFX; cell proliferative disease;
KW autoimmune disease; inflammation; neurological disease;

KW developmental disorder; cancer; AIDS; infection; cytostatic; anti-HIV;
KW neuroprotective; antiinflammatory; gene therapy.
OS Homo sapiens.
XX WO200172777-A2.
XX PD 04-OCT-2001.
XX PF 13-MAR-2001; 2001WO-US08117.
XX PR 13-MAR-2000; 2000US-0188986.
XX PA (INCY-) INCYTE GENOMICS INC.
XX PI Hillman JL, Baughn MR, Yue H, Lal P, Lu DAM, Patterson C;
PI Azimzai Y, Bandman O, Tang YT, Mathur P, Shah P, Au-Young J;
PI Reddy R;
XX DX WPI; 2001-570896/64.
XX DR N-PSDB; ABA82985.
XX PS Novel transcription factor polypeptides, used to treat diseases
PT associated with altered activity and expression of TRFX, and to screen
PT for agents capable of modulating its activity -
XX Claim 1; Pages 151-152; 327pp; English.
XX The present sequence is the protein sequence for a human transcription
CC factor. The transcription factor and its coding sequence are useful in
CC the diagnosis, treatment and prevention of diseases associated with
CC altered expression of the transcription factor e.g. cell proliferative,
CC autoimmune/inflammatory, neurological and developmental disorders. A
CC number of specific disorders/diseases are given in the specification,
CC including: arteriosclerosis, cirrhosis, hepatitis, cancers, AIDS,
CC allergies, anaemia, asthma, autoimmune thyroiditis, bronchitis, atopic
CC dermatitis, diabetes mellitus, emphysema, Goodpasture's syndrome, gout,
CC Grave's disease, multiple sclerosis, osteoarthritis, pancreatitis,
CC psoriasis, rheumatoid arthritis, systemic lupus erythematosus, ulcerative
CC colitis, uveitis, Alzheimer's disease, Huntington's disease, Parkinson's
CC disease, stroke, and viral, bacterial, fungal and protozoal infections.
XX SQ Sequence 152 AA;
Query Match 36.9%; Score 495; DB 22; Length 152;
Best Local Similarity 68.3%; Pred. No. 2.3e-42;
Matches 95; Conservative 16; Mismatches 28; Indels 0; Gaps 0;
QY 114 DNLVVKPDERGFTPLIWSAFGEIETVRFLEWGADPHILAKRESALSLASTGTYDIV 173
Db 11 ENVINHTDEEGFTPLMWAAGQIAVEFLLQNGADPOLGKGRHSALSLASKGYTDIV 70
QY 174 GLLEKRDVDINITYDMNGGTPLLYAVRGNHVKCEALLARGADLTTEADSGYTPMDLAVL 233
Db 71 KMLLDGVDVNEYDMNGGTPLLYAVHGNHVKCKMLLESADPTLETDSGYNSMDLAVL 130
QY 234 GYRKVQGVIEHNLKLFQS 252
Db 131 GYRSVQGVIESHLKLQN 149
RESULT 9
AA01584
ID AAG01584 standard; Protein; 84 AA.
XX AAG01584;
AC AAG01584;
XX 06-OCT-2000 (first entry)
DT Human secreted protein, SEQ ID NO: 5665.
XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping.

XX OS Homo sapiens.
XX EP1033401-A2.
XX PN 06-SEP-2000.
XX PD 21-FEB-2000; 2000EP-0200610.
XX PF 26-FEB-1999; 99US-0122487.
XX PR (GEST) GENSET.
XX PA Dumas Milne Edwards J, Duclert A, Giordano J;
XX PI WPI; 2000-500381/45.
XX DR N-PSDB; AAC01590.
XX DR New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
XX Claim 13; SEQ ID 5665; 71pp + CD-ROM; English.
XX The present sequence is a polypeptide encoded by one of a large number
CC of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs
CC were prepared from total human RNAs or polyA+ RNAs derived from 30
CC different tissues. EST sequences usually correspond mainly to the 3'
CC untranslated region (UTR) of the mRNA because they are often obtained
CC from oligo-dr primed cDNA libraries. Such ESTs are not well suited for
CC isolating cDNA sequences derived from the 5' ends of mRNAs and even in
CC those cases where longer cDNA sequences have been obtained, the full 5'
CC UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5'
CC ends and can therefore be used to obtain full length cDNAs and genomic
CC DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and
CC chromosome mapping procedures. They are used to obtain upstream
CC regulatory sequences and to design expression and secretion vectors.
XX SQ Sequence 84 AA;
Query Match 31.4%; Score 421.5; DB 21; Length 84;
Best Local Similarity 98.8%; Pred. No. 3e-35;
Matches 84; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 MELTOPAEDLIQTQOTPASSELGDPEDPGEAAADGSDTVVLSLPCTPEPVNPEDASVSS 60
Db 1 MELTOPAEDLIQTQOTPASSELGDPEDPGEAAADGSDTVVLSLPCTPEPVNPEDASVSS 60
QY 61 PQAGSSLKHSSTLTNRQGNVSAL 85
Db 61 PQ-GSSLKHSSTLTNRQGNVSAL 84
RESULT 10
AAU20665
ID AAU20665 standard; Protein; 119 AA.
XX AAU20665;
AC AAU20665;
XX 04-DEC-2001 (first entry)
DT Human secreted protein, Seq ID No 657.
XX Immunomodulatory; human immunodeficiency virus; HIV; anaemia; angina;
KW rheumatoid arthritis; antiarteriosclerotic; cardiant; vascular;
KW cerebroprotective; thrombolytic; antimicrobial; ophthalmological;
KW cytostatic; Alzheimer's disease; Parkinson's disease; human; cancer;
KW multiple sclerosis; cancer; hyperproliferative disorder; infection;
KW Gaucher's disease; neurological disease; cerebrovascular disorder;
KW thrombosis; wound healing.
XX Homo sapiens.
OS Homo sapiens.

PN WO200155326-A2.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US01347.
PF
XX 31-JAN-2000; 2000US-0179065.
PR
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX Rosen CA, Barash SC, Ruben SM,
PI
XX WPI; 2001-451931/48.
DR N-PSDB; AAS33374.
XX
XX
PT New nucleic acids and polypeptides, useful for diagnosing, preventing
PT or treating medical conditions -
XX
XX
PS Claim 11; SEQ ID No 657; 753pp; English.

CC The invention relates to novel isolated nucleic acid molecules (I)
CC encoding human secreted proteins (II). (I) and (II) are used to prevent,
CC treat or ameliorate a medical condition in e.g. humans, mice, rabbits,
CC goats, horses, cats, dogs, chickens or sheep. (I) and (II) may be used in
CC the prevention, treatment and diagnosis of diseases associated with
CC inappropriate expression of secreted proteins. (I) and complementary
CC sequences may also be used as DNA probes in diagnostic assays (e.g.
CC polymerase chain reactions (PCR)) to detect and quantitate the presence
CC of similar nucleic acid sequences in samples, and so which patients may
CC be in need of restorative therapy. (II) may also be used as antigens in
CC the production of antibodies and in assays to identify modulators
CC (agonists and antagonists) of the expression and activity of the secreted
CC proteins. The anti-(II) antibodies and antagonists may also be used to
CC down regulate expression and activity of (II). The anti-(II) antibodies
CC may also be used as diagnostic agents for detecting the presence of (II)
CC in samples (e.g. by enzyme linked immunosorbant assay (ELISA)). The
CC disorders include for example: immune/autoimmune diseases (e.g. HIV
CC (human immunodeficiency virus) infections, anaemia, rheumatoid arthritis
CC and multiple sclerosis), cancers and hyperproliferative disorders (e.g.
CC melanomas, neoplasms of the breast or liver, Sezary syndrome and
CC Gaucher's disease), neurological diseases (e.g. Alzheimer's disease,
CC Parkinson's disease and Charcot-Marie-Tooth disease), cardio-/
CC cerebrovascular disorders (e.g. cardiac arrest, tachycardia,
CC angina and thrombosis), infections caused by bacteria, viruses and
CC fungi and ocular disorders (e.g. corneal infections). (I) and (II),
CC agonists, antagonists and antibodies can also be used to promote wound
CC healing, maintain organs before transplantation, and support cell culture
CC of primary tissues. AAU20342-AAU20666 represent human secreted protein
CC amino acid sequences, and related sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification but was obtained in electronic format directly from WIPO
CC at: ftp.wipo.int/pub/published_pct_sequences.

XX
SQ Sequence 119 AA;

Query Match 29.3%; Score 393; DB 22; Length 119;
Best Local Similarity 72.6%; Pred. No. 4.1e-32;
Matches 77; Conservative 9; Mismatches 20; Indels 0; Gaps 0;

QY 147 GADPHILAKERESALSLASTGGYTDIVGILLERDVVDINIDYDNGGTPLLYAVRGNHVKCV 206
Db 11 GADPQLLGKRESALSLACSKGYTDIVKMLLDGVDVNEYDWMNGGTPLLYAVHGNHVKCV 70
QY 207 EALLARGADLTTEADSGYTPMDLAVALLGYRKVQGVIEHNLKLFQS 252
Db 71 KMLLESGADPTIETDSGYNSMDLAVALLGYRSVQGVIESHLKLQN 116

RESULT 11
AAU20558
XX ID AAU20558 standard; Protein; 105 AA.
XX
AC AAU20558;

XX
DT 04-DEC-2001 (first entry)
XX
DE Human secreted protein, Seq ID No 550.
XX
XX Immunomodulatory; human immunodeficiency virus; HIV; anaemia; angina;
KW rheumatoid arthritis; antiarteriosclerotic; cardiant; vascular;
KW cerebroprotective; thrombolytic; antimicrobial; ophthalmological;
KW cytosstatic; Alzheimer's disease; Parkinson's disease; human; cancer;
KW multiple sclerosis; cancer; hyperproliferative disorder; infection;
KW Gaucher's disease; neurological disease; cerebrovascular disorder;
KW thrombosis; wound healing.
XX
OS Homo sapiens.
XX
PN WO200155326-A2.
XX
XX 02-AUG-2001.
PD
XX
XX 17-JAN-2001; 2001WO-US01347.
PF
XX 31-JAN-2000; 2000US-0179065.
PR
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX Rosen CA, Barash SC, Ruben SM;
PI
XX WPI; 2001-451931/48.
DR N-PSDB; AAS33267.
XX
XX
PT New nucleic acids and polypeptides, useful for diagnosing, preventing
PT or treating medical conditions -
XX
XX
PS Claim 11; SEQ ID No 550; 753pp; English.

CC The invention relates to novel isolated nucleic acid molecules (I)
CC encoding human secreted proteins (II). (I) and (II) are used to prevent,
CC treat or ameliorate a medical condition in e.g. humans, mice, rabbits, in
CC goats, horses, cats, dogs, chickens or sheep. (I) and (II) may be used in
CC the prevention, treatment and diagnosis of diseases associated with
CC inappropriate expression of secreted proteins. (I) and complementary
CC sequences may also be used as DNA probes in diagnostic assays (e.g.
CC polymerase chain reactions (PCR)) to detect and quantitate the presence
CC of similar nucleic acid sequences in samples, and so which patients may
CC be in need of restorative therapy. (II) may also be used as antigens in
CC the production of antibodies and in assays to identify modulators
CC (agonists and antagonists) of the expression and activity of the secreted
CC proteins. The anti-(II) antibodies and antagonists may also be used to
CC down regulate expression and activity of (II). The anti-(II) antibodies
CC may also be used as diagnostic agents for detecting the presence of (II)
CC in samples (e.g. by enzyme linked immunosorbant assay (ELISA)). The
CC disorders include for example: immune/autoimmune diseases (e.g. HIV
CC (human immunodeficiency virus) infections, anaemia, rheumatoid arthritis
CC and multiple sclerosis), cancers and hyperproliferative disorders (e.g.
CC melanomas, neoplasms of the breast or liver, Sezary syndrome and
CC Gaucher's disease), neurological diseases (e.g. Alzheimer's disease,
CC Parkinson's disease and Charcot-Marie-Tooth disease), cardio-/
CC cerebrovascular disorders (e.g. cardiac arrest, tachycardia,
CC angina and thrombosis), infections caused by bacteria, viruses and
CC fungi and ocular disorders (e.g. corneal infections). (I) and (II),
CC agonists, antagonists and antibodies can also be used to promote wound
CC healing, maintain organs before transplantation, and support cell culture
CC of primary tissues. AAU20342-AAU20666 represent human secreted protein
CC amino acid sequences, and related sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification but was obtained in electronic format directly from WIPO
CC at: ftp.wipo.int/pub/published_pct_sequences.

XX
SQ Sequence 105 AA;
Query Match 27.1%; Score 364; DB 22; Length 105;
Best Local Similarity 73.5%; Pred. No. 3.1e-29;
Matches 72; Conservative 8; Mismatches 18; Indels 0; Gaps 0;

QY 155 KERESALSLASTGTYDIVGLLEKRDVDINITYDMNGTPLLVAVRGNHVKCVKVEALLARCA 214
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 5 KGRESALSLACSKGYTDIVKMLDCGVADVNEYDWMNGTPLLVAHGNHVKCVKMLLESCA 64
QY 215 DLTTADSGYTPMDLAVALLGKRVQGVIEHILKLFQS 252
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 65 DPTIETDSGYNSMDLAVALLGKRVQGVIEHILKLLQN 102

RESULT 12

ABB97342
ID ABB97342 standard; Protein; 81 AA.
XX
AC ABB97342;
XX
DT 27-JUN-2002 (first entry)
XX
DE Novel human protein SEQ ID NO: 610.

XX Human; antihaemic; vulnery; antiinflammatory; immunomodulator;
KW antiinfectivity; cerebroprotective; cytostatic; rheumatic; gene therapy;
KW neuroprotective; antiparkinsonian; protein therapy; EST;
KW expressed sequence tag.

XX Homo sapiens.

XX WO200222660-A2.

XX 21-MAR-2002.

XX 10-SEP-2001; 2001WO-US26015.

XX 11-SEP-2000; 2000US-0659671.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;
PI Xue AJ, Yang Y, Wehrman T, Dymnac RT;

XX WPI; 2002-292408/33.

XX N-PSDB; ABN32528.

PT An isolated polynucleotide for treating diseases associated with its
PT encoded polypeptide such as cancer and multiple sclerosis -

XX Example 2; SEQ ID NO 610; 509pp; English.

XX The present invention provides the protein and coding sequences of 444
CC novel human proteins. These were isolated from expressed sequences tags
CC (ESTs). They can be used to stimulate cell growth, to regulate
CC haematopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth
CC e.g. in burn treatment, to regulate the immune system e.g. to treat
CC multiple sclerosis, to regulate activin or inhibin e.g. to treat
CC infertility, to regulate haemostasis or thrombolysis e.g. to treat
CC stroke and cancer, to screen for drugs, to treat inflammatory conditions
CC e.g. rheumatoid arthritis, and to treat nervous system disorders e.g.
CC Parkinson's disease. The present sequence is a protein of the invention.

XX Sequence 81 AA;

Query Match 22.3%; Score 299; DB 23; Length 81;
Best Local Similarity 73.1%; Pred. No. 9.3e-23;
Matches 57; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 175 LLLERDVINITYDMNGTPLLVAVRGNHVKCVKVEALLARGLTTEADSGYTPMDLAVALLG 234
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 1 MLDCGVADVNEYDWMNGTPLLVAHGNHVKCVKMLLESGADPTIETDSGYNSMDLAVALLG 60

QY 235 YRKVQGVIEHILKLFQS 252
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 61 YRSVQGVIEHILKLLQN 78

RESULT 13
ABB61859
ID ABB61859 standard; Protein; 234 AA.

XX ABB61859;

XX 26-MAR-2002 (first entry)

DE Drosophila melanogaster polypeptide SEQ ID NO 12369.

KW Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical.

OS Drosophila melanogaster.

XX WO200171042-A2.

XX 27-SEP-2001.

XX 23-MAR-2001; 2001WO-US09231.

XX 23-MAR-2000; 2000US-191637P.

XX 11-JUL-2000; 2000US-0614150.

XX (PEKE) PE CORP NY.

XX Venter JC, Adams M, Li FWD, Myers EW;

XX WPI; 2001-656860/75.

XX N-PSDB; ABL05962.

PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -

XX Disclosure; SEQ ID NO 12369; 21pp + Sequence listing; English.

XX The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (AB16176-AB130511), expressed DNA
CC sequences (AB101840-AB16175) and the encoded proteins
CC (AB57737-AB572072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 234 AA;

Query Match 20.4%; Score 274; DB 22; Length 234;
Best Local Similarity 33.8%; Pred. No. 1.6e-19;
Matches 80; Conservative 37; Mismatches 96; Indels 24; Gaps 6;

QY 13 TQQTPASELGDPEDGEEAADGSDTVVLSLPCTPEPVNPEDASVSSPQAGSSLKSTT 72
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 7 TIQTNNAN--SDDEGVRSAPFTSMVLDAKRKSAFLPYRPQ-----STV 47

QY 73 LTNRQGN-EVSALPATLDSLSIHQAQGL--DQKHELRKGDNLVKNKPDERTPLI 129
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 48 LTNLQRGNTFATFCEVEV-SLSFHERAGQGEITEQVAERARQONIDYK-DAHGTALH 105

QY 130 WASAFGEIETVRFLLEWGDPHILAKERESALSLASTGTYDIVGLLEKRDVDINITYDMN 189
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 106 WAASYGQLVSVQLVAAGANVTMAPDLISPLLAAAGGHEIVRFLLEHGADSGHMDIV 165

QY 190 GTFPLLVAVRGNHVKCVKVEALLARGLTTEADSGYTPMDLAVALLGKRVQGVIEHNI 246
| | | | | : | | | | : | | : | | | | | | | | | | : | |
Db 166 GNTALMYAAAGNHPHTCNELLAKDLDSATNEDGDTAYSLAVEGHAHLAQAALLBOYM 222

RESULT 14

ABBA3550

ID ABBA3550 standard; Peptide; 49 AA.

AC ABBA3550;

DT 04-FEB-2002 (first entry)

DE Peptide #11056 encoded by human foetal liver single exon probe.

KW Human; foetal liver; gene expression; single exon nucleic acid probe.

OS Homo sapiens.

PN WO200157277-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00669.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

PS (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-483447/52.

PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human foetal liver -

PS Claim 27; SEQ ID NO 36185; 639pp + sequence listing; English.

CC The invention relates to a single exon nucleic acid probe for
CC measuring human gene expression in a sample derived from human foetal
CC liver. The single exon nucleic acid probes may be used for predicting,
CC measuring and displaying gene expression in samples derived from human
CC foetal liver. The present sequence is a peptide encoded by a single exon
CC nucleic acid probe of the invention.

CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 49 AA;

Query Match 19.2%; Score 257; DB 22; Length 49;

Best Local Similarity 100.0%; Pred. No. 8.5e-19;

Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MELTQPAEDLIQTQTPASELGDPEDEGEAAGSDTVVLSLFPCTPEP 49

Db 1 MELTQPAEDLIQTQTPASELGDPEDEGEAAGSDTVVLSLFPCTPEP 49

RESULT 15

AAM21225

ID AAM21225 standard; Protein; 49 AA.

AC AAM21225;

DT 12-OCT-2001 (first entry)

DE Peptide #7659 encoded by probe for measuring cervical gene expression.

KW Probe; human; microarray; gene expression; cervical epithelial cell;
KW cervical cancer.

OS Homo sapiens.

PN WO200157278-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00670.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

PS (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488901/53.

PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human cervical epithelial cells -

PS Claim 27; SEQ ID NO 26051; 487pp; English.

CC The present invention relates to human single exon nucleic acid probes
CC (SENPs: see AAI10068-AA128459). The present sequence is a peptide encoded
CC by one such probe. The SENPs are derived from human HeLa cells. The SENPs
CC can be used to produce a single exon microarray, which can be used for
CC measuring human gene expression in a sample derived from human cervical
CC epithelial cells. By measuring gene expression, the probes are therefore
CC useful in grading and/or staging of diseases of the cervix, notably
CC cervical cancer.

CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 49 AA;

Query Match 19.2%; Score 257; DB 22; Length 49;

Best Local Similarity 100.0%; Pred. No. 8.5e-19;

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Db 1 MELTQPAEDLIQTQTPASELGDPEDEGEAAGSDTVVLSLFPCTPEP 49

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